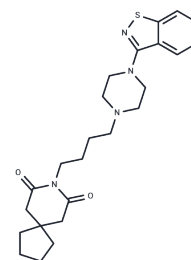


## Tiospirone

## Chemical Properties

CAS No. :	87691-91-6
Formula:	C <sub>24</sub> H <sub>32</sub> N <sub>4</sub> O <sub>2</sub> S
Molecular Weight:	440.6
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Tiospirone (BMY 13859-1 free base) is a 5-HT <sub>2</sub> receptor antagonist and dopamine blocker that inhibits D <sub>2</sub> , 5-HT <sub>1a</sub> , 5-HT <sub>7</sub> , and sigma receptors. Tiospirone is used in the study of neurological disorders such as schizophrenia.
Targets(IC <sub>50</sub> )	5-HT Receptor, Dopamine Receptor

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2696 mL	11.3482 mL	22.6963 mL
5 mM	0.4539 mL	2.2696 mL	4.5393 mL
10 mM	0.227 mL	1.1348 mL	2.2696 mL
50 mM	0.0454 mL	0.227 mL	0.4539 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

- Arolfo MP, et al. Effects of amperozide and tiospirone, atypical antipsychotic 5-HT<sub>2</sub> drugs, on food-reinforced behavior in rats. *Physiol Behav.* 1999 Dec;68(1-2):93-8.
- Arolfo MP, et al. Tiospirone and the reinforcing effects of cocaine in the conditioned place preference paradigm in rats. *J Pharm Pharmacol.* 2000 Aug;52(8):977-81.
- Jajoo HK, et al. Characterization of in vitro metabolites of the antipsychotic drug tiospirone by mass spectrometry. *Biomed Environ Mass Spectrom.* 1990 May;19(5):281-5.
- Hyslop DK, et al. Radioreceptor assay of dopamine binding activity in human serum after tiospirone administration. *Ther Drug Monit.* 1989;11(3):295-303.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481